

ABSTRACT OF THE DISCLOSURE

In a method, apparatus, and system, tone scale of a video is reduced. A cumulative diffused error is added to an initial tone value of a base pixel of a current frame of the video to provide an adjusted tone value of the pixel. A threshold is assigned to said base pixel. The adjusted tone value is quantized
5 using the threshold and a quantization error is generated. First portions of the quantization error are diffused to pixels of temporally neighboring frames and second portions are diffused to spatially neighboring pixels of the current frame. The portions at a next pixel are totalled to provide a respective cumulative
10 diffused error and the assigning, quantizing, and diffusing steps are iterated until all of the pixels of the video frames are processed.